

APPENDIX 2.2

Photos and Maps

**(PHOTOS AND MAPS PROVIDED AS
ELECTRONIC FILES ON ATTACHED CD)**

MISSION BAY LANDFILL SITE ASSESSMENT
for
CITY of SAN DIEGO

APPENDIX 2.2: PHOTOGRAPHS AND MAPS - REVIEW NOTES

Aerial Photographs			
Date	Source	View	Notes
1928-1929	Aerial Photobank ("WCC1A" in City of San Diego files organized according to list in Appendix D "Summary of Photographic Review" in Woodward-Clyde's 1983 report).	Direct Aerial SE corner Mission Bay	Shows western portion of Site. River channel seems short, does not extend far to the south. Sinuous curves of Tecolote Creek are clearly visible. "Government Dike" causeway present next to Old San Diego River channel, but no obvious roads visible in Site area, except roads to Duckville headquarters. Lighter colored materials predominate in Site, transitioning northward to darker more heavily channeled area ("mudflats"). Compare with R. Morrison 1930 map of environments and place names. Also shows extensive buildup of mudflats toward Crown Point compared with the 1859 US Coast Survey map in Hertlein and Grant, 1944).
1928-1929	Aerial Photobank (WCC1B)	Direct Aerial S-central Mission Bay	Shows eastern portion of Site, stereo pair with WCC1A. AT&SF railroad tracks present, but the "Coast Highway" was located east of the tracks, according to Morrison's 1930 map. Dirt road "subdivision" in western portion of Site, but no evidence of activity at Pike Field (the "Pike" spelling is used on published maps and in all documents reviewed, but the correct spelling appears to be "Peik" according to locally published biographical newspaper articles). Little development east of railroad and south of Tecolote creek.

Aerial Photographs			
Date	Source	View	Notes
10/10/37	San Diego Historical Society (SD Hist. Soc.) No. 79:741-396	Direct aerial W of San Diego (SD) River	Stereo pair with next photo. Shows area west of San Diego River channel. River channel appear longer and more distinct than in 1928-1929 photos. Also shows elliptical speedway with grandstand, and roads and buildings west of old channel of San Diego River, near Ingraham Street causeway (completed in 1929) and old levee/road (Government Dike). Road to "oil derrick" east of speedway is visible, as shown on 1933 US Coast and Geodetic Survey map in Hertlein and Grant, 1944.
10/10/37	SD Hist. Soc. No. 79:741-392	Direct aerial from Speedway to Pacific Coast Highway	Stereo pair with previous photo. Shows entire area of landfill. Pike field operations apparent, with short runway and three parked planes. Pacific Coast Highway present and concrete bridge over Tecolote creek is a prominent landmark for use in orientation of later photos.
11/19/37	SD Hist. Soc. No. 79:741-405	Oblique northwesterly view	Speedway, "oil derrick" road and buildings west of old channel of San Diego River, near Ingraham Street (bridges in background). Note contrast between dark mudflats and lighter colored sandy soils.
1/3/1941	Fairchild Collection Flight No. C-6850	Direct aerial of eastern portion of Site	Increased use of Pike Field indicated by larger area of lighter colored soil. Several new dirt roads extend into eastern and north-central portions of Site from general vicinity of Pike Field. Disturbed area visible just west of San Diego River Channel at extreme west margin of photo. Numerous light colored sand bars visible in SD River channel in central portion of Site

Aerial Photographs			
Date	Source	View	Notes
Undated (1940s ?)	SD Hist. Soc. No. 79:741-976	Oblique southerly view	Entire area of landfill, large area of highly reflective soils with sharp western and southern boundaries (dredge spoils?) in area west of old SD River channel (in approximate area of former speedway) . Light area also shows up on 1949 direct aerial photo (source?). Good contrast of dark mudflats (salt marsh vegetation? see Morrison) with lighter sparsely vegetated sandy soils of delta.
1949	SD County Public Works	Vertical aerial of entire Site	Increased activity at Pike Field and vicinity. Roads in small subdivision south of Pike Field clearly defined and some buildings appear to be present. Traces of several roads extend west of subdivision into Site and area of future channelized SD River. Some roads possibly related to imminent construction of channelized river.
1/1/50	SD Hist. Soc. No. OP 14266-20	Oblique westerly view	Entire area of landfill, channelization of SD River in progress. Roads on east side clearly shown, circular road (?) And buildings to west of Duckville access road. "L-shaped" fill (?) area visible, and disturbed area along new levee and just west of river channel. Another circular area (radio tower installation?) to northeast of airfield. Numerous buildings at Pike Field. Small subdivision at west end of Site being demolished during channelization. Numerous buildings south of Government Dike (military housing?).
1/1/50	SD Hist. Soc. No. OP 14266-19	Oblique easterly view	Area west of San Diego River Channel. Channelization of SD River in progress. Hydraulic dredge and fill operations shown. Area south of southern levee appears to be water or marsh.

Aerial Photographs			
Date	Source	View	Notes
1/1/50	SD Hist. Soc. No. OP 14266-22	Oblique northwesterly view	Area to west of Site showing channelization of San Diego River and construction of Midway bridge.
9/7/51	Fairchild Collection Flight No. C-16960	Direct aerial of Site	Completed San Diego River channel (800 feet wide throughout it's entire length). Continued activity at Pike Field, with numerous buildings and parked small aircraft. Disturbed area west of Site includes small area noted in 1/3/41 Fairchild Collection photo. Much larger disturbed area visible west of Site partially revegetated (compare to "late 1940s" photo above). Footprint of former speedway still visible due to contrasting soil color.
"1951"	City of San Diego (WCC1C)	Oblique northeasterly view	Area to north and west of Site, showing Bay entrance and partially channelized San Diego River. Area south of southern levee is now filled.
1/28/1952	Fairchild Collection Flight No. C-17200	Direct aerial of entire Site	Continued use of Pike Field. Disturbed areas west of Site appear darker, suggesting continued revegetation, but roads along western and southern boundaries still clearly visible. Prominent light-colored sandy point bar present on west side of major bend of SD River channel opposite Duckville Headquarters north of Site.
6/9/52	SD Hist. Soc. No. OP 14266-122	Oblique northeasterly view	Entire area of Site visible. Shows channelized river, completed Midway bridge, and construction of bridge at Sunset Cliffs Boulevard. Good view of filled area south of southern SD River levee.

Aerial Photographs			
Date	Source	View	Notes
1953 ("early")	SD County Public Works	Direct aerial	View of entire Site showing early operations of the landfill. Filled area extends about 250 to 300 feet north of the new SD River channel levee. Debris dams extend into the old river channel, leaving a narrow opening on east end, but water appears only along west side of channel, next to active face of the landfill. Several ground photos are available showing easterly and westerly views of the operations.
1/1/53	SD Hist. Soc. No. OP 14266-142	Oblique easterly view	Entire area of Site, with channelized river and completed bridges at Midway and Sunset Cliffs Boulevard. Sunset Cliffs Boulevard completed over filled area. Initial landfill operations visible next to channel levee west of abandoned river channel.
3/31/53	Aerial Photobank (WCC9B)	Direct aerial SE corner of MB	Partial view of landfill operations of west of old river channel. Good contrast between water and marshland along the channel. Two sparsely vegetated areas northeast and southwest of Pike Field. Part of debris dam across old channel and marsh visible. Possible stereo pair with next photo (not seen).
3/31/53	Aerial Photobank (WCC9B)	Direct aerial SE corner of MB	1953 operations of landfill (apparently missing from WCC photo book at City of SD)
7/14/53	Fairchild Collection Flight No. C-19235	Direct aerial of entire Site	View of entire landfill with old SD River channel filled for a distance of about 40 feet north of new SD River channel levee.

Aerial Photographs			
Date	Source	View	Notes
11/11/53	Fairchild Collection Flight No. C-19500	Direct aerial of entire Site	View of entire landfill with old SD River channel filled to about 700 feet north of new SD River channel levee. Active fill operations appear to be progressing northeasterly along a (water-filled?) trench extending along the east side of the filled platform. Numerous vehicles present (in the process of delivering waste?) along fill platform next to trench. Discontinuous trenching also visible along northwest side of landfill platform.
11/19/53	SD Hist. Soc. No. OP 14266-162	Oblique easterly view	Shows Mission Bay entrance and west end of channelized San Diego River.
11/19/53	SD Hist. Soc. No. OP 14266-163	Oblique easterly view	Shows entire length of channelized San Diego River, with Site in distance. Appears to show landfill operations extending to northwest along old river channel.
11/19/53	SD Hist. Soc. No. OP 14266-164	Oblique easterly view	Good view of Mission Bay entrance channel, landfill in distance.
12/10/53	Fairchild Collection Flight No. C-19870	Direct aerial of entire Site	View of entire landfill with old SD River channel filled to about 700 feet north of new SD River channel levee. Similar to 11/11/53 Fairchild photo, but with better resolution of details. Active fill operations appear to be progressing northeasterly along a (water-filled?) trench extending along the east side of the filled platform. Discontinuous trenching also visible along northwest side of landfill platform.

Aerial Photographs			
Date	Source	View	Notes
"1954"	City of SD (WCC22)	Oblique southwesterly view	Shows landfill operations west of old SD River channel and disturbed area to west. No apparent disturbance at east end of Site. Good definition of mudflats and recently filled and graded areas around De Anza Cove and Mission Bay High School.
1/1/55	SD Hist. Soc. No. OP 14266-214	Oblique southeasterly view	Shows possible landfill operations west of open channel of old SD River. New fill present west of Site up to Ingraham Street. No operations apparent in eastern end of Site (too far away?)
1956	City of SD (WCC42)	Oblique northeasterly view	Shows area to north and west of Site.
"Abt 1956"	SD Hist. Soc. S-2715	Oblique northwesterly view	Shows area to north and west of Site. Numerous light-colored areas of new fill, including next to levee west of Site. Curved markings (tire tracks?) inside of "L-shaped" boundary indicate some kind of disturbance.
3/16/56	SD Hist. Soc. 92:18835-1050 SD City Planning Dept.	Oblique westerly view	Shows entire Site with visible soil piles at east and west ends and apparent fill area in between, extending out to northern boundary of landfill. Pike Field operations extensive. Channelized San Diego River shows extensive sediment accumulation west to Midway Bridge.
3/16/56	SD Hist. Soc. OP 14266-229	Oblique easterly view	Shows entire Site, with numerous soil piles on both east and west ends. Dirt roads extend northward from central and western part of landfill toward slough draining into old SD River channel.

Aerial Photographs			
Date	Source	View	Notes
5/16/56	US Coast Guard (WCC43)	Oblique northeasterly view	Good view of trucks dumping and wedge of landfill prograding northward at western end of landfill operations.
11/3/56	SD Hist. Soc. 82:13673-1352	Oblique southeasterly view	Shows entire Site, with landfill operations on both east and west ends. Placement of fill in progress in between. Old river channel completely filled. Large soil piles visible at both east and west ends of Site.
12/10/56	City of SD (WCC47)	Oblique north view	Shows entire landfill operations and Pike Field. Out of focus.
12/10/56	City of SD (WCC48)	Oblique northeasterly view	Shows entire landfill operations and Pike Field. Overexposed.
"1957"	SD Hist. Soc. 82:13673-1434	Oblique southeasterly view	First appearance of light colored "berm" or "beach ridge" of sandy fill material which outlines northern boundary of South Shores. Dark floodwater (?) visible in topographic low in former speedway area. Landfill operations visible at both ends of Site.
7/31/57	City of SD (WCC54)	Oblique easterly view	Dredging operations in progress, but no "beach ridge" visible along the future South Shores shoreline. Isolated building (probably "tractor shed mentioned in 1953 field notes) visible, provides important local landmark for orientation of ground photographs.
12/7/57	SD Hist. Soc. 82:13673-1437	Oblique southeasterly view	"beach ridge" of fill material outlines northern boundary, flooding (?) in former speedway area.

Aerial Photographs			
Date	Source	View	Notes
1958 ("late?")	Fairchild Collection Flight No. C-23271	Direct aerial	View of eastern portion of Site with new area of active operations clearly visible extending east of 3/4/58 photo. Prominent linear soil pile extends along entire eastern boundary. Barren area extending along part of the soil pile appears to be trenched in preparation for placement of waste. A separate triangular area immediately southwest of buildings at the defunct Pike Field appears to contain possible exposed debris and waste materials. This area does not appear to be within the boundary of the City's landfill.
"1958"	SD Hist. Soc. 82:13673-1503	Oblique southeasterly view	Entire Site in distance. Shows new "beach ridge" and fill between landfill and Ingraham Street.
"1958"	City of SD (WCC57)	Oblique northeasterly view	Shows west end of Site and "beach ridge". Note narrow drainage channel in "beach ridge" - possibly a way to relieve the flood potential as seen in 1957 photos? Dredging operations appear complete south of Ventura Boulevard. Area of apparently disturbed ground clearly shown north and west of landfill operations
1/4/58	City of SD (WCC58)	Oblique northeasterly view	Shows entire Site area. Note depression created west of landfill operation by placement of new fill in "beach ridge" and near Ingraham Street. Also shows narrow channel cut into "beach ridge". Soil stockpiles visible in west end of landfill operation.

Aerial Photographs			
Date	Source	View	Notes
1/4/58	City of SD (WCC59)	Oblique northeasterly view	Shows entire Site area. Note topographic depression created west of landfill operation by placement of new fill in "beach ridge" and near Ingraham Street. Also shows narrow channel cut into "beach ridge". New area of operations appears along levee to the east of previous limits.
3/4/58	City of SD C-23023-12-85	Direct aerial view	Four photos, with stereo pairs showing entire Site. Pits and soil piles are visible in both east and west ends of the landfill Site. Good view of topographic low west of landfill operations and the narrow channel in the "beach ridge". A second narrower channel is present in the "beach ridge" north of the topographic low. Large areas of light colored new fill are visible along Pacific Highway.
11/29/58	City of SD (WCC60)	Oblique northeasterly view	Entire Site in distant view. Shows areas of new fill near Site and along Pacific Highway.
"1959"	SD Hist. Soc. 82:13673-1587	Oblique westerly view	Shows all but extreme southeast corner of Site. Operations in western portion are visible. Dredging operations in progress in area north of "beach ridge". Outline of southern portion of Fiesta Island is visible.
"1959"	City of SD (WCC61)	Oblique northeasterly view	Shows all but extreme southeast corner of Site. Operations in western portion are visible. Dredging operations in progress in area north of "beach ridge". Complete outline of Fiesta Island is visible.

Aerial Photographs			
Date	Source	View	Notes
8/9/59	City of SD (WCC62)	Oblique northwesterly view	Entire Site showing additional area of landfill operation eastward toward Pacific Highway. Rectangular ponds visible north of levee in western end of Site. Highway appears to be under construction. Parts of the east side of Fiesta Island have been marked by narrow trenches, but large scale dredging is not underway.
11/1/59	City of SD (WCC67)	Oblique northwesterly view	Very detailed view of entire Site. Landfill operations visible at east and west end, with "tractor shed" visible next to San Diego River levee near mid-point of Site. Rectangular ponds present in western end next to levee. Numerous soil piles are present north of the ponds. Large scale dredging operations in progress and narrow trenches outline the southern and eastern boundaries of Fiesta Island. Buildings still present at Pike Field, but runway has been bisected by trenching of Fiesta Island outline. Highway under construction east of Site.
12/12/59	City of SD (WCC68)	Oblique northerly view	Distant view of entire Site. Fiesta Island outline has been extended, but no large scale dredging in channel north of "beach ridge".
"1960"	City of SD (WCC69)	Oblique northeasterly view	Distant view of entire Site. Fiesta Island outline visible. Soil stockpiles visible at both ends of Site.

Aerial Photographs			
Date	Source	View	Notes
2/13/60	City of SD (WCC72)	Oblique northwesterly view	Detailed view of entire Site. Open pit (?) on extreme east end outside of sharply defined eastern boundary. Rectangular ponds and soil piles visible in western end. Large area between South Shores "beach ridge" and Fiesta Island has been dredged. Much of Fiesta Island is very dark - possibly due to flooding? Numerous soil piles in central part of Site. Rectangular ponds near levee at west end of Site.
2/13/60	City of SD (WCC73)	Oblique northwesterly view	Same features as above, but missing extreme southwest corner of Site.
3/19/60	City of SD (WCC70)	Oblique northwesterly view	Missing extreme southwest and southeast corners of Site. Elongate pit at east end possibly filled in.
7/4/60	SD Hist. Soc. No. 30 (WCC71)	Oblique northwesterly view	Detailed view of entire Site shows operations at east and west ends. Long trenches and soil stockpiles are present at west end, north of rectangular ponds. Eastern boundary of operations is sharply defined. Entire outline of Fiesta Island is visible, appears to be marked by a raised dike with a road on top. Much of Fiesta Island still appears dark, possibly due to vegetation or flooding. New fill placed in topographic depression west of landfill operations.
2/5/61	SD Hist. Soc. 82:13673-1801	Oblique southerly view	Site appears flooded or covered with very dark soil. Pacific Passage channel partially dredged. Parts of Fiesta Island also appear flooded? (Or just covered with dark soils/vegetation?).

Aerial Photographs			
Date	Source	View	Notes
2/5/61	SD Hist. Soc. 82:13673-1827	Oblique northerly view	Site appears flooded or covered with very dark soil. Pacific Passage channel partially dredged.
7/5/61	SD Hist. Soc. No. 10	Oblique northerly view	Soils appear to be dry within boundary of thin dikes. Pacific Passage channel mostly dredged. Dredging operations in progress. Western half of Site appears very dark compared to eastern half, probably indicating a difference in surface soil types.
10/12/61	City of SD (WCC75)	Oblique northerly view	Entire Site appears to have been graded flat, with raised dikes along Pacific Passage channel and on two interior roads. Fiesta Island also appears graded and dry, with areas of both light and dark soils.
12/15/61	City of SD (WCC74)	Oblique northeasterly view	Shows all but extreme east corner of Site. Dark soils predominate, with lighter apparently disturbed areas.
12/15/61	City of SD (WCC76)	Oblique northeasterly view	Shows all but extreme east corner of Site. Dark soils predominate, with lighter apparently disturbed areas.
3/13/62	City of SD (WCC77)	Oblique northerly view	Shows all but extreme west end of Site. Berms and roads clearly defined. Contrasting soil darkness, with lighter disturbed areas. A few very dark areas at both southeast corner and western end. Telephone poles visible on San Diego River levee.
4/7/62	City of SD (WCC78)	Oblique southerly view	High altitude view of entire Site showing no apparent change from 3/13/62 photo.

Aerial Photographs			
Date	Source	View	Notes
11/25/62	City of SD (WCC79)	Oblique northerly view	Entire Site showing no apparent change from 3/13/62 photo, with the exception of apparent buildings and shoreline changes at Sea World.
11/25/62	City of SD (WCC80)	Oblique northerly view	Entire Site showing no apparent change from 3/13/62 photo, with the exception of apparent buildings and shoreline changes at Sea World.
1964	Sandiegohistory.org	Oblique northeasterly view	Sea World facilities and construction activities.
11/2/66	SD County Public Works	Direct aerial	View of entire Site. Good contrast of dark and light colored soils at Fiesta Island and South Shores.
4/4/77	SD Hist. Soc. 82:13673-1933	Oblique northeasterly view	Shows all but southeast corner of Site. Sea World facilities and Sea World Drive clearly shown. Numerous dirt roads present in western half of Site. Raised dike roads still cross central part of Site. Some contrast in surface soils, but mostly looks like light colored sandy material with light cover of vegetation.

Ground View Photographs			
Date	Source	View	Notes
1930	Morrison thesis		Several views of the Duckville area, mudflats, and other environments.
7/17/52	City of San Diego (WCC2)	View east from base of levee embankment west of old San Diego River channel.	Labeled "new sanitary fill Site". Original surface soil types, sand flats/brush before start of permitted City landfill operations. Road grader visible on top of levee, presumably preparing access road for landfill operations.
7/17/52	City of San Diego (WCC2A)	View west.	Original surface soil types, sand flats/brush before start of permitted City landfill operations.
7/17/52	City of San Diego (WCC4A,B)	View northwest.	Original surface soil types, sand flats/brush before start of permitted City landfill operations. Surface soils graded flat, but no significant excavation visible. Ingraham Street bridge visible in background.
7/24/52	City of San Diego (WCC5)	View of dragline boom and bucket.	"First day of rubbish disposal". Dragline excavation of apparently dry sandy soils.
7/24/52	City of San Diego (WCC6)	View east.	Labeled "first day of rubbish disposal". Dragline excavating linear trench approximately 50 feet north of levee road. Truck dumping waste onto linear pile of refuse on sloping surface of levee embankment.

Ground View Photographs			
Date	Source	View	Notes
2/18/53	City of San Diego (WCC7)	View east: "looking e. from w. end of Site at approx. 300 feet n. of dike."	Soil piles parallel to San Diego River levee, close to levee road (as shown by proximity to telephone poles along north side of levee road. Some piles appear to be about 12-15 feet high, based visual on comparison with cab of dragline. Foreground shows what appears to be graded cover of landfill with scattered debris on surface.
3/18/53	City of San Diego (WCC8)	View west: "looking west from east end - 100 feet north of dike."	Row of telephone poles along levee road at left, isolated building ("tractor shed") in distance next to levee road. Dragline visible in distance next to large soil piles west of the old San Diego River channel. Platform of refuse and cover has progressed northward from levee onto sand flats. Water is present at the face of the fill. Comparison with aerial photographs taken at about the same time shows that the landfill had progressed northward from the levee into the channel of the old San Diego River.
3/18/53	City of San Diego (WCC9A)	View east: "looking east from west end - 300 feet north of dike."	Soil stockpiles present along south side of levee. No excavation equipment or other vehicles visible. Comparison with 2/18/53 photo of same area shows little apparent change in northward extent of landfill at western end.

Ground View Photographs			
Date	Source	View	Notes
4/20/53	City of San Diego (WCC10)	View west: "looking west from east end 300 ft. north of dike."	Trucks dumping north of levee, dozer and dragline in operation. Area in foreground has been graded smooth. Landfill has progressed into the low lying areas of the old San Diego River channel and adjacent marsh. Top of landfill platform appears to be at the same approximate grade as the top of the San Diego River levee, marked by the row of telephone poles along the levee road. Thickness of refuse and cover above original sand flat grade appears to be approximately 12-15 feet, based on visual comparison with dozer and trucks. Thickness appears to be greatest in the area of the old San Diego River channel, which still contains water. Debris dam partially closing old river channel is visible at upper right corner of photo.
4/20/53	City of San Diego (WCC11)	View east: "looking east from west end 300 ft. north of dike."	Comparison with previous photos taken of same area indicates that soil piles next to levee have been removed, and the surface of the landfill has been graded flat across most of the fill. Soil piles in distance appear same as those shown in previous photos, and northern boundary of the landfill appears about the same. Boom of dragline is barely visible in middle distance.
4/27/53	City of San Diego (WCC12)	View northwest.	Graded surface of landfill. Soil piles in distance appear to be eroded and partly vegetated, possibly suggesting lack of recent activity at the northwest limits of the landfill.
4/27/53	City of San Diego (WCC13)	View north.	Graded surface of landfill.

Ground View Photographs			
Date	Source	View	Notes
4/27/53	City of San Diego (WCC14)	View northeast.	Graded surface of landfill. Soil piles in distance appear to be eroded and partly vegetated, possibly suggesting lack of recent activity at the northeast limits of the landfill.
4/27/53	City of San Diego (WCC15)	View northwest: "east end looking west."	Two draglines visible, one parked and the other partially obscured by large soil pile. Photo appears to have been taken from edge of levee road, and shows undisturbed and vegetated levee embankment and sand flats west of active landfill operations.
4/27/53	City of San Diego (WCC16)	View east of west end of Site.	Photo taken from top of levee shows landfill operations (trucks) in distance. Some disturbance of sand flat soils apparent at base of levee, and the area has a general lack of vegetation, possibly suggesting past disturbance.
7/17/53	City of San Diego (WCC17)	View east: "looking east from 300' n. of dike."	Photo taken next to dragline cab from top of landfill platform. Water is present in elongate trench excavated to an unknown depth below original grade of the sand flats north of the active landfill operation. No suitable scale is present in the photo to allow measurement of the depth to the surface of the water below original grades.
7/17/53	City of San Diego (WCC18)	View west: "looking west from dike."	Eastern edge of landfill operation, with mostly undisturbed and vegetated sand flats present to the east. No equipment visible in view from levee road.
10/19/53	City of San Diego (WCC19)	View east: "looking east from west end of fill 300' n. of dike."	Landfill platform with east-west trench and soil piles. Numerous soil piles and dragline visible in distance.

Ground View Photographs			
Date	Source	View	Notes
10/19/53	City of San Diego (WCC20)	View east: "looking e. from 300' n. of shed."	Photo taken from northern edge of landfill platform shows landfill materials extending northward across sand flats. Several trucks visible, dozer pushing material at left of photo. Visible waste materials include large amounts of lumber in several distinct piles. One steel drum visible next to truck near center of photo.
10/19/53	City of San Diego (WCC21)	View west: "looking west from east end of fill."	Photo taken from levee road, with telephone poles and fence at left. Landfill materials extend northward from levee across sand flats. Numerous soil piles in distance on top of landfill platform. Boom of dragline barely visible behind soil piles near center of photo.
2/11/54	City of San Diego (WCC23)	View east: "looking e. from garbage hopper."	Dragline and numerous vehicles. Numerous soil piles next to dragline, but remaining area is graded very smooth.
5/27/54	City of San Diego (WCC24)	View west: "looking w. from river dike from e. side of fill Site."	Photo taken from levee road, with telephone poles and "tractor shed" in background. Large soil piles are present next to levee, with a long trench filled with debris and another elongate soil pile. Dragline and additional large soil piles in distance.
5/27/54	City of San Diego (WCC25)	View north: "looking n. from river dike about center of fill Site."	Flat, smooth-graded surface of landfill with isolated soil piles in distance. No activity visible to west, but vehicles present to east, at far right side of photo.

Ground View Photographs			
Date	Source	View	Notes
5/27/54	City of San Diego (WCC26)	View east: "looking n.e. from river dike from road to garbage hopper."	Newly grade road in foreground leads to north from levee across the levee slope. "Tractor shed" shown at right side of photo. Spoil piles in middle distance and dump trucks present. Active part of landfill appears to be mostly east of the shed, with the foreground levee slope and sand flats showing little or no disturbance.
8/25/54	City of San Diego (WCC27)	View west: "looking w. from east boundary of fill approx. 500' n. of S.D. river dike."	Large soil piles and steep wall of trench parallel to levee, with telephone poles visible in background. South wall of trench appears to be about 12-15 feet high, based on comparison to cab of dragline. The dragline appears to be parked on the original grade of the sand flats. Part of the trench is filled with water. The west end of the trench is filled with refuse to within a few feet of the top of the trench.
8/25/54	City of San Diego (WCC28)	View northwest: "looking w.n.w. from east boundary of fill approx. 500' n. of S.D. river dike."	View similar to previous photo (WCC26), but taken from a point above the top of the trench. The undisturbed sand flats north of the landfill are shown, with the Ingraham Street bridge visible in the far distance. An undated photo in the City files is an enlargement close-up of the refuse being dumped into trench.
10/19/54	City of San Diego (WCC29)	View east.	Smooth graded surface, appears to be at same grade as undisturbed sand flats. Levee road and poles at right margin of photo.
10/19/54	City of San Diego (WCC30)	View northwest.	Appears to be undisturbed and partially vegetated sand flats, with soil piles in distance at left side of photo.
10/19/54	City of San Diego (WCC31)	View northwest.	Smooth graded surface, appears to be at same grade as undisturbed sand flats. Ingraham Street bridges in distance. Levee road and poles appear to be at left of photo.

Ground View Photographs			
Date	Source	View	Notes
10/19/54	City of San Diego (WCC32)	View northwest.	Photo taken from levee road of smooth graded surface of landfill. Shadows of pole and fence at left. "Tractor shed" in distance at left.
10/19/54	City of San Diego (WCC33)	View east from levee.	Numerous soil piles in distance. Truck heading south toward levee road. Line of telephone poles marks north side of levee road.
10/19/54	City of San Diego (WCC34)	View north.	Flat graded surface of landfill. No equipment visible.
10/19/54	City of San Diego (WCC35)	View east from west end of Site.	Photo taken from top of levee west of landfill. "Garbage hopper" (?) Visible in distance at middle of photo.
10/19/54	City of San Diego (WCC36)	View north.	Flat graded surface of landfill. Photo taken from levee road, probably near middle of landfill. White domed structure (radio installation?) in middle distance
10/28/55	City of San Diego (WCC37)	View east.	Photo taken from levee road across graded surface of landfill. Levee road, poles, and "tractor shed" visible at right. "Garbage hopper" in middle distance.
10/28/55	City of San Diego (WCC38)	View east. Caption?	Photo taken from levee road of west end of landfill. Posted public notice and poles along levee road. "Tractor shed" in distance next to levee road. Dragline parked (not in operation?) on soil platform extending at levee grade onto sand flats about 60-80 feet north of levee road. Fill materials appear to be about 12-15 feet thick. Two piles of darker soil, one on top of soil platform, the other on the sand flats at left margin of photo.

Ground View Photographs			
Date	Source	View	Notes
10/28/55	City of San Diego (WCC39)	View northwest.	Photo taken from levee road of smooth graded surface of landfill. Shadows of pole and fence at left. "Tractor shed" in distance at left. Compare with WCC 32, taken the previous week from similar location.
10/28/55	City of San Diego (WCC40)	View northwest.	Photo taken from levee road. Telephone poles at left margin. Vegetated surface of undisturbed sand flats with large soil pile in distance.
10/28/55	City of San Diego (WCC41)	View northeast.	Graded surface of landfill, with swale in foreground. Photo taken from north of levee road, just west of middle of landfill (for orientation, note posts in distance visible in several other photos).
6/1/56	City of San Diego (WCC44)	View east.	Photo of smooth graded surface of landfill taken at elevation north of levee road. Distinct dirt road extends north from levee road onto landfill platform. Soil piles in distance.
6/1/56	City of San Diego (WCC45)	View northeast from above levee road.	Graded surface of landfill with numerous tire tracks. Dragline parked. Radio structure in middle distance at right. Old San Diego River channel in distance at left.
6/1/56	City of San Diego (WCC46)	View west from above levee road.	Smooth graded surface of landfill in foreground and far distance. "Eroded" soil piles in middle distance. One vehicle on levee road, otherwise no equipment visible. "Tractor shed" and Midway Avenue bridge visible next to levee road in far distance.

Ground View Photographs			
Date	Source	View	Notes
12/14/56	City of San Diego (WCC49)	View west.	Photo taken over the roof of the "tractor shed" of the western part of the landfill. Midway Boulevard, levee road and telephone poles at left margin of photo. Soil piles in middle distance, dragline digging at northern limit of landfill platform.
12/14/56	City of San Diego (WCC50)	View east from above levee road.	Photo of smooth graded surface of landfill taken from north of levee road. Distinct dirt road extends north from levee road onto landfill platform. Soil piles in distance. Compare with WCC 44 taken on 6/1/56. A little more vegetation is now present.
12/14/56	City of San Diego (WCC51)	View north west from above levee road.	Photo taken through telephone wires at east end of landfill. Compare to WCC46 taken on 6/1/56. Little change in soil piles, old tire tracks are obscured and "windblown". Radio installation (?) in distance at right side of photo.
12/14/56	City of San Diego (WCC52)	View northeast from above levee road.	Photo taken above levee road, with telephone wires at top of photo. Smooth grade surface at west end of landfill. Soil piles and dragline in middle distance. Radio installation (?) in far distance at left of photo. Trucks at left margin of photo. Flatbed truck with two large crates (?) in foreground.
12/14/56	City of San Diego (WCC53)	View northeast.	Photo of smooth graded landfill surface taken from middle of landfill. Radio installation in far distance at right of photo. Road at left appears to be recently used, but few tracks visible in foreground.
9/11/57	City of SD (WCC55A) panorama	View northeast.	Graded surface of landfill.

Ground View Photographs			
Date	Source	View	Notes
9/11/57	City of SD (WCC55B) panorama	View east	Photo taken from levee road. Dragline boom visible among soil piles in distance roughly north of "tractor shed" visible in distance at right. Compare with panorama of WCC 56A,B,C.
9/11/57	City of SD (WCC56A) panorama	View northeast.	Photo from levee road of area west of old SD River channel. Smooth graded surface of landfill with weathered vehicle tracks. Eroded soil piles at left margin. Part of panorama of three photos.
9/11/57	City of SD (WCC56B) panorama	View north.	Graded surface of landfill west of old river channel, with large soil stockpiles. Several trucks visible in middle distance.
9/11/57	City of SD (WCC56A) panorama	View northwest.	Partially graded surface of landfill west of old SD River channel. Dragline boom visible between large soil piles at right margin of photo. Several trucks visible, one apparently full truck heading toward dragline. Another truck apparently dumping in middle distance.
8/26/59	City of SD (WCC63)	View southwest	Graded surface of landfill in foreground. Truck dumping, dozer compacting debris. Eroded soil piles at left margin of photo. Fresh soil piles (or recently covered waste?) at right.
8/26/59	City of SD (WCC64)	View west.	Photo from graded surface of landfill cover (?) or soil pile in eastern part of landfill. Truck dumping waste at right, dozer visible to left of truck. Eroded soil piles in middle and far distance. Levee road, poles, "tractor shed" and Midway Boulevard bridge visible at left side of photo. Light colored soils of "beach ridge" visible at right margin beyond dump truck and waste pile. Western operations barely visible in far distance at right (compare view of Midway Boulevard Bridge with WCC 65).

Ground View Photographs			
Date	Source	View	Notes
8/26/59	City of SD (WCC65)	View west.	Graded landfill surface with wide trench partly filled with water. Midway Boulevard bridge, levee road and telephone poles in distance at right. Dragline in center of photo. Large piles of dark (moist?) soils near dragline.
8/26/59	City of SD (WCC66)	View east.	Wide trench partly filled with water. Saturated soils relatively dark. Telephone poles along levee road visible in upper right corner of photo. No equipment or refuse visible.
undated ("1958")	City of SD (WCC81)	View east.	Pacific Highway bridge in middle distance at left. Dirt road to Pike Field visible at intersection next to remains of building. Dozer compacting solid waste, waste being sprayed with water. Boxes and lumber visible in waste. Photo taken from top of soil pile (note edge of pile at lower left corner of photo. Approximate date of 1958 based on correspondence of activities seen on aerial photograph from Fairchild collection (C-2371) which shows the dirt roads and a linear trench with adjacent soil berm at east edge of landfill, south of abandoned Pikes Field.
undated ("1958")	City of SD (WCC82)	View west.	Piles of soil and concrete or asphalt demolition debris in eastern part of landfill. Midway Boulevard bridge, telephone poles, "tractor shed", and levee road visible at left. Light colored sand of "beach ridge" with drainage channel in middle and far distance at right. Trash trucks and other vehicles on a well-defined haul road through piles. Date of photo is estimated as 1958 based on similarity to features shown on March 7, 1958 aerial photograph.

Ground View Photographs			
Date	Source	View	Notes
undated ("1958")	City of SD (WCC83, 83A)	View south.	South bank of San Diego River channel in background. Appears to be taken near eastern edge of landfill from on top of soil pile or landfill cover. Water-filled pit to left of trucks and dozer. Refuse is being unloaded from trucks. Pits and eroded and partly vegetated soil piles suggest date of 1958 based on similarity of these feature with those shown on the 1958 aerial photographs.

Maps			
Date	Source	View	Notes
1859	U. S. Coast Survey map in Hertlein and Grant, 1944	Entire area of Mission Bay.	Shows San Diego River flowing into San Diego Bay. 1853 dike visible, sinuous bend visible at mouth of Tecolote Creek. No roads shown in area of Site.
1930	Morrison MS thesis	Entire area of Mission Bay	Shows habitats and types of sediment found in original environments. Note locations of mud and sand deposits.
1933	U. S. Coast and Geodetic Survey map in Hertlein and Grant, 1944	Entire area of Mission Bay.	Railroad and Pacific Highway present. Government Dike visible south of Site. Ingraham Street causeway (completed in 1929) and speedway shown. Roads visible to oil derrick east of Speedway and from Pacific Highway to Duckville headquarters at prominent bend in the San Diego River, which now flows into Mission Bay. Large buildup of mudflats, as shown by comparison of the position of the sinuous bends of Tecolote Creek to the new shoreline.
1953	U. S. Geological Survey	Topographic map showing entire area of Mission Bay.	Pike Airport and tidal channels shown. Revised from aerial photographs taken in 1950. Shows area of eastern Mission Bay prior to dredging.